

# Edgar Tretschk

## EDUCATION

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<b>Max Planck Institute for Informatics and Saarland University</b> <i>PhD Candidate in Computer Science</i>	since Oct. 2018 <i>Saarbrücken, Germany</i>
<b>Graduate School of Computer Science, Saarland University</b> <i>Doctoral Preparatory Phase</i>	April 2017 – Oct. 2018 <i>Saarbrücken, Germany</i>
<b>Saarland University</b> <i>Bachelor of Science in Computer Science</i>	Oct. 2014 – March 2017 <i>Saarbrücken, Germany</i>
<ul style="list-style-type: none"><li>• Bachelor Thesis: Variational Pansharpening with Nonlinear Anisotropic Diffusion</li><li>• Grade: 1.1, Graduated in Top 3</li></ul>	

## EXPERIENCE

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<b>Research Immersion Lab</b> <i>Mario Fritz' Scalable Learning &amp; Perception group at MPII</i>	Oct. 2017 – March 2018 <i>Saarbrücken, Germany</i>
<ul style="list-style-type: none"><li>• Published a work on adversarial attacks on agents trained with reinforcement learning</li></ul>	
<b>Research Immersion Lab</b> <i>Christian Theobalt's Graphics, Vision &amp; Video group at MPII</i>	April 2017 – Oct. 2017 <i>Saarbrücken, Germany</i>
<ul style="list-style-type: none"><li>• Extended a previously developed method to simultaneously reconstruct the object being tracked</li></ul>	
<b>Undergraduate Research Assistant</b> <i>Christian Theobalt's Graphics, Vision &amp; Video group at MPII</i>	Oct. 2016 – March 2017 <i>Saarbrücken, Germany</i>
<ul style="list-style-type: none"><li>• Developed a method that tracks a non-rigid object in real time from depth video</li></ul>	

## TEACHING

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<b>Computer Vision and Machine Learning for Computer Graphics</b> <i>Saarland University and MPII</i>	2019, 2020 <i>Saarbrücken, Germany</i>
<ul style="list-style-type: none"><li>• Supervised graduate students</li></ul>	
<b>Math Preparation Course for Freshmen</b> <i>Saarland University</i>	2016, 2017, 2018 <i>Saarbrücken, Germany</i>
<ul style="list-style-type: none"><li>• Coached small groups</li><li>• Held lectures (only 2017)</li></ul>	
<b>Theoretical Computer Science</b> <i>Saarland University</i>	2017 <i>Saarbrücken, Germany</i>
<ul style="list-style-type: none"><li>• Tutored a group of about 30 students</li></ul>	
<b>Programming 1</b> <i>Saarland University</i>	2015 <i>Saarbrücken, Germany</i>
<ul style="list-style-type: none"><li>• Tutored a group of about 30 students</li></ul>	
<b>Re-Exam Preparation for Programming 1</b> <i>Saarland University</i>	2015 <i>Saarbrücken, Germany</i>
<ul style="list-style-type: none"><li>• Tutored a group of about 30 students</li><li>• Held lectures</li><li>• Created exercise sheets</li></ul>	

## AWARDS & HONORS

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- Bachelor Award (for the three best Bachelor graduates in CS)
- Bachelor Honors Program
- Deutschlandstipendium Scholarship (April 2015 – March 2017)

## PUBLICATIONS

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- [1] V. Sidhu, **E. Tretschk**, V. Golyanik, A. Agudo, and C. Theobalt. “Neural Dense Non-Rigid Structure from Motion with Latent Space Constraints”. In: *European Conference on Computer Vision (ECCV)*. 2020.
- [2] **E. Tretschk**, A. Tewari, V. Golyanik, M. Zollhöfer, C. Stoll, and C. Theobalt. “PatchNets: Patch-Based Generalizable Deep Implicit 3D Shape Representations”. In: *European Conference on Computer Vision (ECCV)*. 2020.
- [3] **E. Tretschk**, A. Tewari, M. Zollhöfer, V. Golyanik, and C. Theobalt. “DEMEA: Deep Mesh Autoencoders for Non-Rigidly Deforming Objects”. In: *European Conference on Computer Vision (ECCV)*. 2020.
- [4] S. Shimada, V. Golyanik, **E. Tretschk**, D. Stricker, and C. Theobalt. “DispVoxNets: Non-Rigid Point Set Alignment with Supervised Learning Proxies”. In: *International Conference on 3D Vision (3DV)*. 2019.
- [5] **E. Tretschk**, S. J. Oh, and M. Fritz. “Sequential Attacks on Agents for Long-Term Adversarial Goals”. In: *2. ACM Computer Science in Cars Symposium (CSCS)*. 2018.